THE JOURNAL

OF

THE LINNEAN SOCIETY.

Synopsis of the Diptera of the Eastern Archipe.ago discovered by Mr. Wallace, and noticed in the 'Journal of the Linnean Society.' By F. Walker, Esq., F.L.S.

[Read June 1, 1865.]

THE synopsis which follows these notes is arranged like Mr. Smith's tabular geographical view of the Hymenoptera of the Eastern Archipelago in the Seventh Volume of the 'Journal of the Linnean Society.' The synopsis only contains the species discovered by Mr. Wallace; and the districts may be mentioned in the following order:—

Malacca, with Mount Ophir, affords 51 species, and Singapore 67 species. Borneo comes next in succession, passing by Sumatra and Java, where the fauna is generally very distinct from that of the rest of the archipelago. Only 129 species are recorded from Borneo, and this extensive region is very inadequately represented. In Celebes the species collected amount to 236. Amboyna comes next; and several species of this island have been recorded by Dr. Doleschall, in addition to the 50 species collected by Mr. Wallace. Aru supplies 166 species; Batchian contributes 75 species; and New Guinea, the most eastern district, enumerates above 70. The other isles have been so little investigated that they may be passed over without notice.

About 300 species of Philippine Diptera have been lent to me by Professor Bellardi, and a very large proportion of them are undescribed.

The following families are not referred to in these notes; for their occurrence in the archipelago is as yet nearly or entirely unknown:—Mycetophilidæ, Cecidomyzidæ, Bibiomidæ, Simulidæ, Chironomidæ, Phlebotomidæ, Heteroclitæ, Rhyphidæ, Empidæ, Estridæ.

The gnats or mosquitoes (or Culicidæ) are represented in these isles by 12 species of Culex, 2 of Megarhina, and 1 of Anopheles. The genus Culex is found throughout the world, and has probably continued from very early ages as compared with many other genera of insects. The species of different countries have much mutual resemblance, with the exception of a few that are peculiar to warm regions; and it is remarked by Humboldt that in some parts of South America each stream has its peculiar species. The genus Megarhina is especially South American, and does not appear in Africa, nor on the continent of Asia, nor in Australia.

Tipulidæ.—Of the seven genera in the following list, two (Limnobia and Tipula) are distributed throughout the world; and the Limnobiæ here recorded are very few, and it is probable that there are numerous undiscovered species in the eastern isles. Limnobia is a remarkable group, on account of the variation of the structure of the wing-veins being nearly equal to the number of species, which is very great. It will be divided into very numerous genera; and Baron Osten-Sacken has taken the lead in this part of systematic entomology with regard to the North American species. He has discovered in North America several species which in England are represented by Geranomyia; and he regards these as the remains of an earlier creation, which has mostly passed away in Europe, its former existence being indicated by fossils. Geranomyia is a native of the sea-coast, and is found, with Orphnephila, in the Channel Isles and in the western parts of Great Britain; and these two genera, like the little Chironomus that hovers over sea-weed, may have lived on the shores of the former Atlantic continent. The species of Tipula and of Pachurhina here recorded are few in number, and are not peculiar in structure. Megistocera is an Australian genus, and is remarkable for the very great length of the antennæ of the male. The species in this list has been long known as a native of Java; and Mr. Wallace has discovered it in Aru. Ctenophora is generally distributed; but Pterocosmus is a new genus, founded on five species from Borneo; and Gymnoplistia, which was before only known in Australia, is represented by three species.

Strationidæ.—This family is very diversified in the isles, and is represented by 26 genera, of which 16 are new. The species of these new genera are of comparatively small size, and in them the

characteristics of the family are not much developed. Ptilocera appears to be peculiar to these isles and to South Africa; and F. quadridentata is the only Dipterous insect that has been found in almost all the islands here mentioned. Clitellaria, Cyclogaster, Stratiomys, Oxycera, Chrysomyia, and Sargus are widely distributed. Of Eudmeta only one species is known; and it occurs in Hindostan, Singapore, Sumatra, and Java. Phyllophora was founded on a West African species, and Singapore is its only other locality. Hermetia, to which Massicyta may be united, is especially a South American genus, and has not been discovered in Africa, nor on the continent of Asia.

Xylophagidæ.—It is doubtful whether this family has been discovered on the archipelago; for perhaps Rhypomorpha may not belong to it. This is very different from all other genera, though it has some resemblance to the North American genus Rachicerus.

Tabanidæ.—One species of Pangonia, a genus that abounds in Australia, has been discovered in the archipelago. Tabanus is especially characteristic of continents, and the species appear to have been multiplied since the continents were established by the joining together of islands. About 600 species of this genus have been recorded. Chrysops and Hæmatopota are nearly as widespread as Tubanus; and C. dispar is among the few of these insular species that appear also on the continent of Asia.

Asilidæ.—The Dasypogonites are of rare occurrence; they are represented only by 13 species and by 4 genera (Mydas, Discocephala, Dasypogon, and Dioctria), all of which are found in several other regions. In the Laphrites, the numerous species of Laphria here recorded are the most remarkable features in the Dipterous fauna of these islands. By far the greater part of them are of the metallic-coloured group, which has very few representatives in other parts of the world. Most of the species are very closely allied to each other, and some of them will probably be considered mere varieties. Perhaps the connecting links will disappear by degrees, and the remainder will then be recognized as isolated or clearly defined species; or, in botanic phrase, the segregate species which compose the aggregate species will partially cease, and the true species will continue or will be more evident. It is well known that some regions of the earth represent now the earlier state of other regions; and in like manner the preparatory establishment of species may be observed in some districts, while there are no traces of such a process in other districts. Among the Asilites, the genera Trupanea and Ommatius are nearly limited to

the warmer parts of the earth; and several species of them inhabit these isles. Asilus and Leptogaster are generally distributed, and the former contains a vast number of species: of the few here mentioned, all are new, excepting A. longistylus and A. Barium; and the geographical range of the latter extends to Ceylon. In Aru there is one species of the Asiatic genus Damalis.

The Bombylidæ, so various in form, are very scarce in these isles, and appear only in four genera—Therma, Anthrax, Geron, and Systropus; the last is a widely spread genus, but contains very few species. In this family the archipelago especially differs from Australia, and has no representatives of the peculiar forms and of the large number of species that inhabit the latter region.

The Leptidæ comprise a few species belonging to Leptis, Chrysopila, and Suragina, of which genera the last one is new, and

contains two species from Gilolo.

In the Dolichopidæ there are many species belonging to *Psilopus*, *Dolichopus*, *Diaphorus*, and *Chrysotus*; and as all the species of this family are of small size, it is probable that they are much more numerous.

Lonchopteridæ.—It is doubtful whether the new genus Cadrena belongs to this family.

The *Platypezidæ* and the *Pipunculidæ* are each limited to one species. *Pipunculus* has been found in Amboyna; it also occurs in Australia.

Syrphidæ.—Some genera of this family are selected for notice. Ceratophya was discovered by Dr. Doleschall; it was before only known in North America. The species of Ceria are very few; yet five of them are contained in this list, and four of these are new. The species described as C. lateralis is C. indica. The genus Eristalis contains four of the few Dipterous species whose geographical range extends beyond the archipelago. E. Amphicrates inhabits Hindostan and China; E. Andræmon and E. æneus inhabit Hindostan; and E. arvorum inhabits China. Baccha Amphithoë and Ascia brachystoma are also natives of Hindostan; so also are Syrphus ægrotus and S. alternans; and S. ericetorum inhabits Africa.

Conopidæ.—One species of Conops was discovered by Dr. Doleschall; it has little affinity to the Australian representatives of the genus.

Muscidæ.—Several of the subfamilies of this most extensive group are very slightly represented in the list; but it is probable that a large number of new species will be discovered.

The Tachinides amount to less than 60 species. This number appears very small when it is considered that the European species of these parasitic Muscidæ are excessively numerous. They are in exact contrast to the Muscides—where the species are comparatively few, but occur in immense swarms; whereas in the Tachinides the species appear to be interminable, but none of them are in any abundance. In this the Tachinides resemble some tribes of parasitic Hymenoptera, and, like them, may have been diversified in character by the numerous kinds of insects on which they are parasitic. Hamaxia and Zambesa are the only two new genera. Megistogaster Imbrasus inhabits China as well as Borneo.

Dexides.—Rutilia may be mentioned as indicating in some of the isles an approach to the Australian fauna, this genus being restricted to the archipelago and to Australia. It is the largest in size, and the most brilliant in colour, of all the Muscidæ. Felder has named a genus of Rhopalocera after Dr. Doleschall; and as my genus Doleschallia is very closely allied to Torocca, I have united these two genera, and have annulled the former name.

Sarcophagides.—Sarcophaga, the type of this tribe, is very widely distributed, and the species have much mutual resemblance. S. ruficornis inhabits Hindostan and Malacca; and all the other species in this list are merely insular.

Muscides.—Idia is limited to the warmer regions of the Old World, and of the species here mentioned some have a wider range than the generality of these Diptera: thus, Idia australis is found in Australia, I. xanthogaster in Hindostan, and I. testacea in the Mauritius. Two of the species of Musca have been already described, and inhabit also Hindostan; the rest are new, and some of them are indicated as new subgenera. Musca domestica is omitted from the list.

Anthomyides.—These may be passed over without notice, as it is probable that only a very small part of them are yet discovered, and that they have been neglected on account of their small size and dull colour; and the same remark will apply to the Helomyzides, the Borborides, the Lauxanides, the Ascinides, the Geomyzides, the Phytomyzides, and the Hydromyzides. In the Helomyzides, the occurrence of Cælopa may be mentioned as that of a genus which seems to be nearly peculiar to other regions. It swarms on the northern shores of Europe; but in the Channel Isles it is scarce, and another genus replaces it on the sea-weed.

The Celyphides are closely allied to the Lauxanides, and are

very remarkable on account of the development of the scutellum, whereby these flies have the semblance of beetles. Their range extends from Hindostan through the archipelago to the Philippine Isles.

Ortalides.—This subfamily is remarkable on account of the great variety of its forms, the beauty of its colours, and the elegant markings on the wings of many species. Thirteen new genera have been established on the insular species—Xangelina, Xiria, Poticara, Mystia, Callantra, Aragara, Sophira, Rioxa, Valonia, Brea, Adrama, Polyura, and Strumeta. A few of the other genera require some notice. A species of Oxycephala inhabits Ceram; but elsewhere the genus is only known to occur in North America. Lamprogaster is abundant in Australia; and the species of it in Malacca, Singapore, and some of the isles exhibit a resemblance to the Australian fauna. A few of the insular species are very remarkable on account of the great breadth of the head; and they form the genus Zygænula of Doleschall, or Pterogenia of Bigot. The genus Dacus abounds in the isles; and several of the species, like the Laphria, are very closely allied to each other, and have much resemblance to the species of Hindostan and of Ceylon. The very extraordinary genus Achias attains its greatest development in Aru: some future investigation may lead to the discovery of the use of the long petioles on which its eves are seated.

Diopsides.—The singularity of the eyes of Diopsis has been too often described to require any notice here. The genus extends from Africa to the Philippine Isles.

Sepsides.—The genus Colobata is very generally distributed, and is rather numerous in these isles; and the species, though natives of widely separated regions, have much mutual resemblance. Some of the species of Sepsis have a great likeness to the British species, which occur now and then in immense swarms. The genus Angitula was established on the female of Elaphomyia, Saunders (Phytalmia, Gerstäcker). The female was transmitted to England long before the horned male of this most peculiar genus was known. The typical Elaphomyiæ are not mentioned in the list, as I have not described them; but the one species here recorded differs widely from the others, and I have transferred to it the generic name Phytalmia.

Psilides.—The species are few in number, but contain four new genera—Canurgia, Texara, Seraca, and Gobrya.

The known species of the *Phoridæ*, like those of the preceding group, are almost wholly European, and only two have been found in the archipelago. The *Hippoboscidæ* require no notice.

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Sciara																												
	٠.	٠.	• •	٠.	*																							
	٠.	• •	$ \cdots $	• •	*																*							
1	• •														*		•••		• •	• •	~							
ponderosa	::															*												
~ .								٠.					*															
filipes									٠.				*		ĺ							1						
Mycetophila							1							l														
obscurata Leia	٠			• •		1							• •	*														
indivisa			l								*		*															
Cecidomyia	•								1		"	•	^													i		
20 7					*																		1					
Plecia																		Ĺ	1			1	-					
dorsalis				*	*	*											*				*		*					
	٠.				*		1														1							
Megarhina											-		*		*	*						1			1			
immisericors			*		• •								*	• •	75	-							*					
Culex	• •			• •				ı					1					Ì										
splendens						*				*	*											1	ì			1		
annulipes						*									Ì					1								
fuscanus		*		*	*										ì													
scutellaris													ļ															
obturbans	• •		1						• •				*		*								*	1	1			
impatibilis	٠.	···						٠.					• •		*				-	1					1			
imprimens				::	, .												*	j										
ventralis			::	::	1		1				1	::	*	::	1		*										1	
zonatipes			1	1 .									*							1								
filipes													*															
Anopheles				1	1																							
vanus	٠.												· ·		*													
Chironomus instabilis								1											1									
Limnobia	٠.										1		*	1														
leucotelus						*															1							
plecioides						*												1										
dichroa				*				Ì										1										
impressa	.`.	1			*							1						1	1		1							
rubescens	• •	1			*														1									1
pyrrhochroma			• •		*				1							1												1
argento-cincta					*	j									*									1				1
vittifrons														1.		١	*											
strigivena													*															
quadrifurca		1				١							*															
perdecora													*			1		-										
terminalis	٠.												*															
euchroma							*	1												1								
				1	1								1 *	1			F		1	1	1	1		1	1	1		1
latifascia			' '	1.	1	1	1	1 _				1		1	1	1	!	1_	1			1	*		1	1	l .	
auroatra plenipennis		ļ.,				١		!															*					

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles	Australia,	Africa.	Ceylon.	Corea.
Limnobia																									_		_	
infixa	• •	• •				• •	٠.	• •	• •	٠.	٠.		*															
contingens	• •	• •	••	• •	• •	• •	٠.	• •	• •	٠.	• •	• •	*															
trisignata	• •			•	• •		• •		• •	٠.		• • •	*	ĺ										ł				
								::								*							1					
innotabilis																												
																							*					
	• •					• •			• •				*															
Tipula								- {																				
pedatavilis	• •	• •	• •	••	*	• •	• •	• •	• •	*																		
infindens					ļ.										*	*								•	1			
															*	ж				i								
0 10 1		- 1	- 1														*											
congruens				- 1		- 1							*				į											
pallida				٠. ا						٠.			*															
Megistocera				- 1			- 1										- 1	- }	-						ļ			
fuscana	• •	• •	• •	••	• •	• •	٠.	• •	• •	*		• •	• •	٠.		• •	• •	• •	٠.		*				ı			
Pachyrhina	- 1	- 1		Í	ļ		- 1						.,					1	- }					-				
tripartita	••	• •	• •		- 1				• •	•••	٠.	٠.	*											-	- 1			
colorata												• •		*				- 1									-	
Ctenophora	-					-								^			- 1	- 1										
chrysophila						*	1											- [- [- [
incunctans	٠٠												٠.		*	ĺ										- 1		
gaudens	• •		• •	• •	• •	• •	• •	• •	• •	• •	••			• •	*							-					- 1	
Pterocosmus		- {								- {		- 1							- 1		1					- }		
lunigerus infixus	$\cdot \cdot $	••	• •	••	*	ı						ļ		- 1									- 1	- }				
optabilis					*				- 1	ļ	- 1	Ì					- 1								Į			
combinatus					*										- 1	-												
dilutus					*		- 1				- }						- 1				1							
Jymnoplistia							-				- 1			- 1					- 1									
jurgiosa	• •		• •	• •	• •	- 1	• •								• •	• •	• •	• •		• •	*	1			- 1			
fulviceps	• •	• •	• •	• •	• •								*											İ	- 1			
melancholica	- 1			- 1	- 1		- 1		• •	• •	- 1		• •		• •	• •	•	• •	• •	.		٠.	*					
Ptilocera		• •	• •	•	٠٠		٠.					••		*														
quadridentata			*	*	*	* .	*	*	*	*		*	*	*		*	*				*							
smaragdina			* .		- 1										*													
smaragdina			.			1] .	.						*							1						
Olitellaria													- 1															
bivittata		• • •				- 1		- 1	*					• •	• •	• •		• •	-	-	*			- 1				
responsalis						٠.	•	•		• •	• •	• •	*															
flaviceps				- 1		*				*																		
varia					*		•			~																		
festinans					- 1										*													
gavisa															*													
obesa			* .	l.								*	*			*												
tibialis									··		• •	• •	• •	• •	*	*												
Cyclogaster radians		- 1																										

China, India, India, Philippines, Malacca. Borneo. Singapore, Gilolo. Ternate, Sumatra. Java. Java. Waigrou, Bachian. New Guinea, Bachian. New Guinea, Salwatty. Celebes. Ceram. Amboyna. Salua. Gorrite, Key. Aru. Kaisaa. Mysol. Solomon's Isles Australia.	
China. India. Philippin Malacca. Borneo. Singapor Gilolo. Ternate. Sumatra. Java. Wew Gui Bachian. New Gui Bachian. New Gui Bachian. New Gui Bachian. Key. Aru. Kaisaa. Mysol. Solomon' Ahru. Kay. Aru. Kaisaa. Mysol. Solomon' Africa.	Corea.
Cyclogaster	
detracta * infera *	
infera*	
confirmata*	
Phyllophora	
angusta * Eudmeta	
marginata * * * *	
Ampsalis	
geñiata * Massicyta	
bicolor	
inflata	
Cerioides	
remittens*	
rufiventris	
Culcua	
simulans *	
bipars*	
Nerua	
scenopinoides	
impendens *	
inamœna	1
hybotoides	
Adraga univitta	
Salduba	
diphysoides	
hilaris	
melanaria	
scapularis	
singularis * * * * * * * * * * * * * * * * * * *	
areolaris	
Gabaza	
argentea	
manens	
Musama	
paupera* Tracana	
iterabilis	
Obrapa	
perilampoides	
celyphoides	
habilis	
Ruba	
inflata	

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles	Australia.	Africa.	Ceylon.	Corea.
Ruba																												
opponens Tinda	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	*															
modifera	٠.,						٠.						٠.		*													
recedens Saruga	•	• •	•••	• •	• •	• •	• •	• •	•••	• •	• •	• •	*															
conifera								٠.					*		*													
Chrysomyia bipars	į											*																
Sargus	1	• •		•								Î																
luriduslongipennis			• •		*	*				*																		
metallinus	• •	*			*	• •				*											*							
latifascia		••			*																							
	• •		• •							• •	• •	• •	*	• •		• •		• •	• •	٠.	*							
rogans		*																			*							
-		٠.	• •			• •	• •		٠.	٠.	٠.		٠.		*													
redhibens	• •													::	*		Ì											
mactans															*		*											
inactus quadrifasciatus .	• •		::									*			*		*						计					
longipes							٠.						*				-						"					
concisus	• •	• •					*	• •	• •			*																
quadrifascia										::		*	*	*														
tarsalis						١	*					*		-														
debilis inficitus										• •		*	*															
Stratiomys	•											Î																
lutatius			• •	1																	*							
nexura							::	::								::					*							
immiscens	:														*													
finalis					::								*		*													
restricta	١	١	١	١																			*					
parallela bifascia								• •			• •		*															
æqualis							::					*	^															
equalis cinctilinea Rhyphomorpha							*																					
bilinea												*						1										
Pangonia	Į.	1		1																								
caliginosa Tabanus			٠.										*															
speculum															*													
partitus						*																					-	
hybridus									-																			
nexus					*																							
fumifer										1					1		-	-										1

							-								-	1	-		-		1	_		sles.		1		
	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles	Australia.	Africa.	Ceylon.	Corea.
Tabanus													-				_											
succurvus		• •					• •	٠.	٠ -	• •	• •	• •			*													
doreicus		::		• •		•			•	• •	• •	• •	*								*							
obscuratus																*			•		Î							
serus			٠.			٠.	••		٠.,		• •					*												
factiosus	• •	• •	• •	• •	• •	• •	• •	• •	• •		• • •	• •	• •	• •	*								*					
exagens		::			::												• •	••					*					
spoliatus												٠.	٠.		*													
facilis		i .	• •	• •	••	• •	• • •	• •	• •	• •	• •	• •	• •	• •	*	• •	• • '	• •	• •	• •	• •	• •	*					
extricans												*		.:	N.													
flexilisinsurgens															*													
insurgens			٠٠,	• •	• •		• •	• •		• •		*																
cohærens papouinus			• •	• •						• •		• •	*															
breviventris													*															
sylvioides															• •					• •		• •	*					١.,
humillimus simplicissimus.				• •	*		٠.		• •		• •	• •			*													
Chrysops	1				^																							
dispar		*		*	*												*											
								• •		*					*													
fixissimus	1::	1::			*							*																
parallelus						1		1				*																
Hæmatopota					١			1																				
roralis					1							}																1.
Mydas	-	1		1																								
basifascia															*													
Discocephala dorsalis				*	*																							
pandens				1	1					 					*													
		١.,				1								. :	*													
Dasypogon		,,																				1						
incomptus		*			1																							
inopinus		٠ ٠ ٠																										
honestus				4	4	1						1			• •						*						1	
glabratus congressus												,			*							1						
solutus							*											"										
semifilatus		$\cdot \cdot \cdot$		1			1						1															
indecorus Dioctria													*															
claviventris							. .,						*															
Laphria								1		ĺ																		
paradisiaca													1::		1						*							
liturifera													*							'								
congrua	. .	• • •										*	1.	.	.	*							*					

	China,	India.	Philippines.	Malacca.	Borneo.	Singapore,	Gilolo,	Ternate,	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Laphria																												
consurgens			::	• •		• •	::	*	::			*				*	*				*							
Taphius		1	*					. ,							*	*	*											
tristis			• •	• •			*	• •	• •	• •		*	• •	٠.	• •	*	*											
scapularis obliquistriga							::			*			*		*					• •	*							
consobrina																					*							
comes	• •			• •		• •	*		• •		*	*			*	• •	*	•	• •	• •	*							
replens					• •		• •						*	•	î	1												
placens					٠.										• •		٠.			*								
flagellata			• •	• •			*					*									*		*					
7.0																							*					
germana			• •	٠.		٠.		٠.	• •					• •	• •	• •	• •	• •	٠.	• •	*	٠.	*					
setipes			•••				*								*	*							*					
compta																	*						^					
sodalis		• •	• •	٠.	٠.	• •	٠.	• •				• •		٠.	• •		• •	٠.		• •	*							
tibialis													3 3 4		*													
conveniens							*					*	*															
ostensa			• •	• •	٠.	• •	٠.	• •	• •			٠.	• •	٠.	• •	*							}					
auribasis		::			• •	• •					*	*																
Reinwardtii									*	*																		
ampla	• •	• •	• •	*	• •	• •	٠.	• •	• •	*	• •	• •	• •	• •	*	*	*											
vulcanus flagrantissima				ж.		• •				36		*	*			×					*		*					
flammipennis							٠.								*													
ardescens concludens	• •	• •			• •		• •	• •	• •	• •	• •	*	*		*													
justa				• •	• •	::															*							
disciplena tripars													*															
tripars basifera		5	• •	• •	• •	• •	• •	• •	• •	• •	• •	*	*															
manifesta			• •		• •						*	*									*							
declarata				٠.											٠.	.:	٠.	• •			*							
aperta bipars				• •	• •	• •	٠.	٠٠,	• •		*		*	• •	• •	• •	• •	• •	• •	• •	*							
puer											*		*				*						*					
dioctrioides				٠.					٠.	٠.				٠.	*													
pipunculoides amæna					• •	• •			• •	٠٠		• •	*															
alternans						*				*			×															
aurifacies	• •			*	*	*	٠.					٠.			٠.		٠.				*							
basifera					 *	*	• •	• •	• •																			
						*																						
fusifera						*																						
sobria					*	*																						
piana			• •	• •	×	*																				1		
L															ų	-										1		

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Laphria imbellis						*																						
notabilis				*	*																							
orcus		*		*																								
radicalis		7		*																								
triangularis					*			*	*																			
constricta					*	• •			*																			
unifascia comptissima					*												}											
rudis					*																							
producta					*																							
lepida				• •	*																							
incivilis					*																							
partita					*																							
interrupta					*																							
detecta					*																							
Trupanea					Ü																							
Amorges					*																							
inserens Plutonica					*		*								×													
strenua			::				25								*						}							
contradicens	١	١																			*		1					
complens													*															
interponens					• •	• •						*																
transacta																							*					
Gilolana			1				*																					
calorifica					• •								• •		*						i							
Asilus						• •							• •		~		1											
lineosus					*	*																						
latifascia						*																						
fusiformis				*																								
Barium '				*					*																		*	
flagrans				• •	*				1											1								
contortus			::		*		ļ		ļ.,						*													
areolaris	1	l									1				*													
mendax	l														*													
strenuus depulsus													*										*					
superveniens				1										::	::	1			1				-					
biligatus	1	١									*																	
tenuicornis				• •	• •	• •									*													
lævis didymoides															l	١	l	ļ.,					*					
normalis	١	1	1					*																				
longistylus								1				1						ļ			*							
introducens determinatus															*	*												
dotolilliands	1	1	1				I	1	1	1	1	1	1	1	1^		[1	1	1		1		1			1	1

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Asilus involutus												*																
complens				•••		• •	*	• •			• •	*																
condecorus							*	*				î																
Ommatius																												
Hecate					*	*																						
Pennus	• •	• •		*	*	٠.	• •	•••	*	• •	• •	• •	• •	• •	٠.		• •	• •		٠.	٠.	• •	• •		• •		٠.	*
gracilis	• •	• •	• •	*												*												1
inextricatus discalis				• •	::	• •	• •		• •		• •				*	×												
scitulus															*													
Lucifer											*			**							*							
noctifer							*				*	*	*				*			*	*		*					١.
strictus															*								1					١.
retrahens			*		٠.	٠.	*	*		'			• •		• •	*						٠.	*					
nanus	٠.		*	• •	• •	• •		• •	• •		• •	• •	*		• •	• •	• •	• •	• •	• •	• •	• •	*					
noctulus	• •	• •			• •	• •	• •	• •	• • •				*	*					ĺ									١.,
invehens				::							*			~														١.
							*				"							ĺ										1
platymelas bacchoides																*												١.,
Damalis																												
lugens													*															
Leptogaster						١.																	ļ					
tricolor	٠.			• •			Ì	,																			1	١.
inutilis ferruginea					*							24									*							
longipes																					*		*				ĺ	
albimanus																					*							
munda				١											*													
tarsalis						٠.						*	٠.			*										İ		1
exacta		٠.		• •		٠.		*					*			*						1						
magnicollis Thereva					• •	• •		• •		• •						*	ļ											
præcedens	١			l	*																					1		
congrua											*				*						*		1			1		
							*																					
Anthrax																												
Pelops			*				*				*	*	*	*	*	*	*				*		*					1
Tantalus				• •	*		٠-		• •	*	• •				*	1										1		
pennipes devecta				٠.	*		• •		• •	*							*											1
confirmata												*					*											1
prætendens											*	*	*	*	*	*	*		l		*		*					
distigma		*	*		*					*	*	*	*		*	*					*	*						
satellitia					*																							
											• •					*									1			
aterrima									• •		• •	*		• •	*		*											
prædicans demonstrans															*													
emittens																	*											
degenera						*							.,		*						*							
antecedens												*			*													

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Anthrax																												
apicifera	• •	٠.		• •	• •	• •	• •	• •	••	• •	• •	• •	*															
simplex																					*							
Systropus sphecoides															*													
Hybos			• •	• •	• •	• •			• •	٠.			• •	• • •	*													
bicolor			t .								1		*								*							
deficiens Epiceia	• •	• •		• •	• •							• •	• •			• •			• •	*		}						
ferruginea												*	*			*	*						*					
teptis		• •		٠.		• •	• •		• •				*															
decisa				*	*									}														
ferruginosa			*	• •	*						1	*	*		*	*	外				*	*	*					
impar Suragina					• • •							*																
illucens	 														*													
signipennis Chrysopila				• •	• •		*																					
maculipennis					*																	1						
vacillans							l.				4										*							
guttipennis							1				::	*	l.,		l								*					
Psilopus		'												' '		1		'	'				"					
robustus					*	*																						
posticus			1::	*	*	*																						
clarus				×																	-							
subnotatus				*	*				*																			
allectans					*				1																			
alliciens					*																							
delectans		::			*																							
proliciens					*																							
prolectans		::	::		*															1								
derelictus					*																							
lucigena							. :						*	*				1					*					
										*	::		*		*						*							
variipennis		1.						٠,				*	*															
extendens													*	*		*					×	 	*					
persuadens		::														ļ	*				"		-					
seticornis													2 .			.*												
terminifer												::						::	1	::			*					
æstimatus															*													
flavicornis									*		::	*	*			::	*				*							
													*	*		*					*							
egens moderatus																							*					

	1		1	1	1	ì	ī					ī	i i	1	1	T	1	1			1			on	1			
	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles	Australia.	Africa.	Ceylon.	Corea.
Psilopus		_													Ì													
abruptus															*												١,	
filifer				• •		• •		• •	• •	• •					*		*						34					
superans											::	*					*	• •		• •			*					
orcifer											1	4,1	*								*							
Dolichopus					v																. :							
electus					*																							
collectus					*																						ļ	
trigonifer				• •	٠.		• •	• •		• •	• •	• •	• •	• •	*	• •	• •	• •	• •	• •	*							
prædicans								• •							*												}	
provectus															*													
præmissus					• •		• •		٠.	• •	• •		٠.	• •	*													
proveniens						• •	• •	• •	• •	• •			*	• •	*													
pulchriceps						• •																	*					
Diaphorus																												
delegatus		• •	٠.		*								Ų		*						*		*					
resumens Chrysotus		•	×	• •		• •	• •	• •	• •	• •	• •	•	75		'n	• •	• •		• •	• •	~	• •	*					
exactus									٠.						*												-	
Cadrena															*			-										
lonchopteroides . Platypeza	••	• •	•	• •		• •	• •	• •	• •	• •	• •	• •	• •	•	*									İ				
glaucescens									٠.						*						-		•					
Pipunculus																				- 1		1						
Amboinensis Ceratophya		•		•	• •	• •		• •	•	• •	• •	• •	• •	• •	• •	• •	*											
indica														*	٠.		*											
Ceria			ı									İ										-						Ì
Javana annulifera	• •			*	- 1		• •	• •		*		• •	*	• •	*							- 1		i				
smaragdina					- 1										. :						*	-						
relicta							- :	• •	• •	•	. :	• •	٠.		٠.;		• •	• •		• •	*							
relictura Microdon	• •	• •	• •	• •	• •	• •	• •	••	• •	• •	• •	•	• •	* *	* :	•	• •	•	• •	• •	*				Į			
fulvicornis				. :																	*							
apicalis								- 1		• •		- 1	• -	- 1	• •	• •	• •	• •	• •	• •	*							
Graptomyza tibialis															*						*							
Milesia		•			•		•		•			• •	-	•	^	-					1							
macularis	. :	• •	• •	• •			1	- 1		*					Ì													
Reinwardtii vespoides	• •	• •	• •	• •		*	• •	•••	• •	*																		
Zamiel					*	^							-															
conspicienda				• •											*													
Eristalis					×	¥				*																		
niger?singularis						*		•		^																		
Amphicrates	*	*		*	• •					*																		
arvorum	*		• •	• •		• •	• •	• •	• •	*																		
Andræmon		*	• •		*											1	1			1		1	1		1			

						-	i	ļ					e;											les.	1			
	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guines	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Is	Australia.	Africa.	Ceylon.	Corea.
Eristalis	_																						_					
splendens		٠.		• •	• •	• •	• •	• •	•••	• •	*	*	*	٠.	٠.	*	*		• •	• •	*	٠.		*				
resolutus	• •		• •		• •	• •	• •	• •				•	*	• •	• •		*	*	• •	*	*		*					
obliterans						•											*				• •		*					
bomboides													*		*								*					
obscurata									٠.			٠.	*												1			
tortuosa	• •		٠.			• •	• •	••	٠.	• •	• •	• •	• •	٠.	*													
lucilioides				• •		• •					• •	*	• •	• •	• •	• •	• •	• •	• •	• •	*	• •	*	i i				
erythropyga						• •							• •				• •			•	*		*					
postscripta			1																				*					
conductus													*								*							
æquipars						٠.	٠.				• •	• • •		٠.	• •	• •			• •	• •			*					
placens	٠.	1	٠.	• •		٠.						• •			• •	• •	*		• •		٠.	• •	*					
Agno Æsopus				::	!							• •			*		×				• •	• •			*			
suavissimus														l::	l		٠.				*							
inficitus							1 :								*													
helophiloides												*																
merodontoides					• •											*									1			
rassus Helophilus		*		• •	• •	• •		• •	• •	• •		• •		*														
insignis				*	*	*		ļ																				
quadrivittatus			::	ı										l	١						*							
mesoleucus		Ł													ļ	1					*							
consors															*					-		1						
conclusus Xylota															*													
conformis		1			*	*																		İ				
ventralis		::	1							١								١			*							
Eumerus	'		'		1					1		1	'															İ
figurans															*				1					1				
argentipes						١						*														1		
Merodon varicolor																										1		
interveniens									l						*													
Orthoneura			1			1.									1					-								
basalis		.																			*							
Paragus																									1			
substitutus		.	1				1.		1.			*			. *													
venosus					1			1.					*		*													
luciferus					į.	1	-1						. *	1														
incisuralis													. *															
Baccha																												
Amphithoë		. *			*										. *													
dispar										1	- 1		. *	1	* 1 %													
incisa																								1			-	
tripartita											. .	i										. -		- 1				
purpuricola				٠.									. .		. -					. *			. *	+				
Ascia brachystoma .	-																				-		1	-			1	
		. I X			. *		1	1	1	1		1	-	-				1					1				1	-

	,	,		1			1	1				1		_					1	1		,		1 20	T			
	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian,	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles	Australia.	Africa.	Ceylon.	Corea.
Syritta																		_							-			
illucida Volucella			• •	• •	• •		• •						• •		*													
trifasciata		l			*		١			· 长	1																	
decorata										í					*													
Axona																												
volucelloides Baryterocera		• •	• •	• •	• •	• •			• •					• •		• •	• •	٠.	• •	• •	٠.		*	1				
inclusa					*																							
gibbula															*													
Citibæna																												
aurata	٠.	• •	٠.	• •	*																							
Syrphus ericetorum		*						*		*		*	*								*		*			*		
ægrotus										*	*	*	*			*					*		*	• •	• •	ж.		
consequens															*						Ü,							
duplex			٠.	٠.		*																						
triligatus				*	v																							
divertens					*																							
cyathifer					*																							
Azpeytia																												
scutellaris	٠.	• •	٠.	٠.	٠.	٠.	• •	٠.	٠.	٠.	• •	• •	*															
Conops rufifrons																	*											
metaxantha										• •	*	• •	•		• •	• •	^											
Echinomyia																												
brevipennis	٠.	• •		*														-										
sarcophagoides . Tachina	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	*			1										
Ophirica				'n														- }										
analis									٠.								*			Į								
	٠.	• •	• •	• •	• •	٠.	• •	• •	٠.		٠.		٠.	• •			*											
Nemoræa amplificans															*			- {							- 1			
tenebrosa	• •														*										- 1		- }	
postulans				- 1	- 1								*															
Saralba																												
ocypteroides	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	*															
incongrua																	*											
Masicera																												
vicaria				• •	• •	*																						
Morio	• •	• •		*			*										м.											
horrens,,					- 1										*		*											
sarcophagata	٠.	:														*												
dotata						• •	• •	• •	• •	٠.	• •	• •	• •	• •	*													
immersa Mysolana,					- 1			•••						•••	*												-	
manifesta									. ,		- (*	•	•		•	• •	*					
notabilis	٠,	٠.									1	1	- 1								*							
prominens	• •	• •		• •	• •	• •	••	• •	• •		• •						*											
tentata	• •	• •		• •	• •	••		•••	• •	• •	• •	•••	• • '	٠٠.	• •	• •	• •	• •	;	• •	*	1						
												_					-								-			1

	1	_	1			1	,	1	1	-	_	_				_				,			1	1 -2	1	1	,	_
	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwattv.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Masicera											-			_				_	_		_							
solennis								٠.													*							
simplex	• •	٠.				• •	٠.	• •	• •	• •	• •	• •						• •		• •	*							
guttata		• •	1				• •	• •	• •		• •	*						• •	• •	••	*							
prognosticans						- 1									*													
Eurygaster															1													
muscoides subferrifera	• •	٠.		1		*								l														
limitaris				: :	*							*				-				j								
mutans						- 1		٠.					*							ĺ	1							
remittens	• •	٠.		- 1	• •	• •	• •	*	• •	٠.	• •	٠.			*											ı		
ridibunda			::				*		:			• •	*	• •	*						*							
fingens					- 1									*					•		*	ļ		Ì		-		
conglomerata							• •	• •			• •	٠.	٠.		*				-			Ì						
prominens	• •	• •	• •	••	••	• •	••	• •	• •	• •	• •	• •	٠.	• •	*									İ			ı	
interdicta			•									•	• •		*	• •		• •		•	•	• •	*			ı		
deducens]							*													
contracta				٠.	• •		- 1	• •		• •	• •		٠.		*													
progressa phasioides	••	• •	• •	• •	• •	• •			• •	• •	- •	••	• •	• •	*			-										
decipiens									1					• •		• •			- 1		*							
Trichoprosopa?		- 1	- 1		- 1	- 1		- }																Ì				
divisa	• •	• •		• •	• •	••	• •	• •	••				• •			٠.		• •	• •	• • [• •	• •	*			-		
marginalis Megistogaster	••	• •	• •	-	•	•		•	••	• •	••	• •	• •	٠.	••	• •	*	-	1					1				
Imbrasus	*				*			-	1				ĺ					- 1				1		-				
Metopia			- 1	- 1		-																	-					
inspectans	• •	••	••	•• •			•	••	- 1	- 1			$\cdot \cdot $	- L	*						Ì							
instruens Phorocera				• • •					• •	• •	• •	• •	• •	• •	*							-			Ì			
expellens				.													*					1				-		
decedens	.		٠.	٠. ،		٠.			٠.							• -	*			1							-	
basitincta								••	•• •	$\cdot \cdot $	••	••	*	*	••	••	*											
Zambesa			٠ [•					•• •		•	••	*	*			Ì											
ocypteroides			.			*																						
Dexia					1		1																					
divergens				*	*																							
extendens					*	-								1														ı
fusiformis		- 1		. .		- 1			- 1	- 1	- 1		- }	- 3	*													
basifera												- 1	• •	• •	*													
includens	:	- 1	1.		- 1					- 4	- [*			*													
parallela		- 1		- 1		- 1		* *																				
præcedens			. -		. -									- 1	*													
alulifera			-						- 1		- 1			- 1	*	*	• • •				. 3	*						
pectoralis					- 1						:		- 1	- 1						. 7	+							
Rutilia									1		-	1											1					
saturatissima						. *					. 3	*																
			,	-	-	1				- 1	,	ı							-						-		-	

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Rutilia																_							_					
plumicornis	• •					• •		• •	• •				*	• •	٠.		٠.	٠.	٠.		*							
fervens	• •		::		• •	• •	*	• •	• •	• •		*	*															
glorificans													*															
						٠.					*		*			}												
lucigena		• •	• •	٠.	• •	• •	٠.		• •	٠.	*		*															
complicita			• •					*				*										*						
angustipennis																*					*	^						
sapphirina	• •		٠.		٠.	• •	*																					
excelsa volucelloides					٠.			*				*																
trixoides							*																					
ignobilis																			*	1								
Gymnostylia																												
invita					٠.	• •	*	• •	• •			٠.	×						1	ĺ								
Prosena			١.				n												1									
pectoralis											*		*								*							
argentata				• •										٠.		• •		• •	٠.,		*		*					
coacta													*			*												
secedens																*												
fasciata													*															
Torocca abdominalis															*					İ								
gonypedoides											*		*		77													
cylindrica													*															
consors							٠.			٠.	*																	
Cynomyia fortis		١			*									i														
Sorcophaga		1			K	ĺ																						
ruficornis		*		*																								
reciproca				*	*																							
alienaindicata				*	*									• •	×													
sericeo-nitens																*	*											
aurata			٠.												٠.		*											
invaria					• •								• •		*	• •	• •		• •	٠.	*							
mendax							*								*		• •				×							
brevis													*			*												
innotata		١								٠.		•`•	• •										*					
basalis perpusilla		1.											*							*								
inextricata											1				*													
Idia																												
bicolor tenebrosa		ļ		*																								
discolor		٠			*					*																		
bivittata			1		*																							
australis			٠		١										*						*				*			
xanthogaster	,	*	•••	• •		• •			• •	*							٠.	• •		*								

		1	1 1										-						1			_		-6.				
	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles	Australia.	Africa.	Ceylon.	Corea.
Idia																												
æqualis									٠.				a \		٠.						*							
divisa			*	• •	٠.	٠.	• •	• •	٠.	• •		• •		• •	*													
testacea																				*								
Musca																												
defixa						*																						
infixa fumipennis						*																						
dotata						*																						
diffidens					*	*																						
chrysoides		1	1	*																								
trita				*	*																							
porphyrina				*																								
confixa				*		İ																						
perfixa			1																						1			
chalybea				*	*						1					1												
micans		*			*				*	×					*													
exempta			.		*																				-			
prospera							*		• •						*								١.,					
costalisgloriosa							*			1::	*	*	*	1::		*	*			5			*					
opulenta				1																								
opulenta conflagrans		. .	٠ ٠ ٠												*													
delectans diffusa			.									*			*													
decrescens												*	l	١	l.,		١						. *					
bivittata	١.,		1														*		1				l ^					
sarcophagoides.													*												-			
mesembrinoides							1						*		*										1			
ingens									::				1.		*						×							
divitiosa		- 1																			1		. *		1			
marginifera	٠.	. .	٠ - ،													1			4		1							
nitescens				1											*	1				-								
flaviceps													*		×													
selecta			1												*													
sperata		. -	$\cdot \cdot $.	٠.	. : .	· · ·			٠.	.			*													
inscribens		. -	- 1	• •	. - :	. .	· • ·				• • •				*		1											
electa		- 1				1							*		1													
obtrusa			1	1								. *			1	- 1	*	+		. *	*							
benedicta		- 11	- 1											.			.		· ··	1	*							
fortunata porphyricola.						- 1						•	*		. *													
intrahens		: :					- 1	1							· *		1						*					
proferens												.			. *													
refixa															. *													
gavisa inconclusa								i i							. *		1,0											
inconclusa				: :							. *						*				. *							
1	1.	T.	1	Α,	. 1.	. 1 .	1.		Τ.	1.	. _	1.	. L.	1.	1.		1.		1.		^		l	1	1		1	1

		_	1		1	1	1	1		1	1	1	1	1	1	ı	1			!	_	}		m		1	1	1
	China,	India.	Philippines.	Malacca.	Borneo,	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles	Australia.	Africa.	Ceylon.	Corea.
Musca			_	-	-	_	_				-	_			-	_					-	-	_	-	-			_
1																					*							
umbrifera															*													
aricioides																							*					
sordidissima	• •	• •		• •			• •	• •		• •	• •	٠.	٠.				• •	• •	٠.	• •	٠.	• •	*					
præcox	••		• •	• •		• •	• •	• •	• •	• •	• •	٠.	• •	• •	*	*												
										• •	• •		• •		*													
															*													
favillacea			*												*													
eristaloides								٠.		٠.						٠.	• •		٠.		*							
â.	• •	• •	• •		• •	٠.	• •	٠.	• •		• •	• •	*	*		• •	• •	• •	• •	• •	٠.	• •	*					
		• •		٠.	• •	• •	*	*	• •	• •	٠.	٠.		• •	*	*							,,					
ferruginea								~					*	::	*	χ,	*		• •	• •	• •	• •	*					
trifascia													*	• •			^	Į										
Bengalia																												
Dioclea					*			ļ				- 1																
spissa	• •	• •								٠.			٠.							٠.	*							
Aricia								ĺ											- 1									
		• •			*	*	• •	• •	• •	*		i				Į												
argentata	• •		• •	*	*											Ì		-	ĺ			ĺ						
albicornis			1										*								1		*	ļ			i	
7	- 4																						*			1		
biplaga																							*					
contraria										٠.			*		*			• •					*					
significans		• •			- 1	٠.	• •		• •	• -		• •	• •		- 1	• •	*	• •	• •	٠٠	*	• •	*		1			
nigricosta				- (• •	• •	• •	• •	• •	• •		• •	• •		*						,		- 1					
vicaria														*						*	*							
squalens			- 1															- 1		*	ļ				- 1	- 1		
integra															*	-								İ			Ì	
prolixa										• •													*		ı			
Hydrotæa		- [- 1		- 1	-																		
solennis Spilogaster	• •	• •	• •	*						İ	- 1			ı		- 1							- 1					
1 0,3				- 1	İ	- 1									*				1							-		
Lispe		•						•							^	-			- 1			ı				- 1		
bimaculata		!													*											- 1		
Ophyra																												
riparia	• •						- 1	- 1	• •	• •		- 1				• •	*											
reducta		• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	• •	٠-	••	• •	*											
illocata					*																							
procellaria					- 1										*						*							
incertula		- 1	- 1	- 1									*															
Atomogaster																												
biseriata			1	- 1	- 1	- 1	*																					
triseriata		••	• -	$\cdot \cdot $	• •	• •	*																					
		*			*																							-
macularis					*																							
			-		"																							

	ì	1	1		1	1				1	1		1	<u> </u>			1		1				1	တို		1 1		_
	China.	India.	Philippines.	Malacea.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Cænosia																-	-	_	-	-	-			-	-	f		_
luteicornis					٠.										*						*							
signata	• •						• •			• •	• •				*													
respondens						• •	• •								*								*	1				
Cœlopa														'			1						"					
inconspicua Xarnuta		• •	• •	• •	• •	• •															*							
leucotelus	l					*					*	*	*	*	*						*							
Cordylura											"	1	1	^						• • •	*							
bisignata	• •	c •	• •	• •											*													
Helomyza intereuns				*																								
exeuns				*																								
orientalis					*					*																		
fuscicostata		• •			*																							
limbata					*																							
provecta					*																							
invicta niveistriga		• •	• •	• •	*																							
quadrifera					• •	• •			• •		• •	• •	*															
meritoria																							*					
optatura		• •		• •									*															
tripunctifera		•••		• •	• •	• •	٠.	٠٠,	• •	• •	••				*													
fissifera		• •			• •	• •		• •						• •	*								*					
atripennis				٠.									*								*		*				- [
picipes		• •	• •	• •	• •	• •	• •	٠.		: •	٠.		*		• •		• •	٠.	٠.	٠.	*						1	
restituta	•	• •	::	• •					• •			*	*								*							
observans															*						×.		*				ĺ	
interventa			• •	٠.	• •	٠.	*																			1		
ortalioides stelliplena				• •	• •	• •	• •	• •	• •	• •	• •	• • •	*															
Sciomyza		•	•		• •	• •	• •	• •	• •		•	• •	74"												Ì			Ì
replena															*						-							
leucomelana	• •	٠.	• •	• •	• •	• •	*		٠.	• •	• •	٠.	٠.	• •	*	• •	• •	• •	• •	٠.	• •	••	*					
atomaria								٠,٠							*										Ì	ı		
Cotamba			}															-		Ì								
fumifera Tondera	• •	• •	• •	• •	• •	٠.	• •	• •	• •	• •	*	*	*		٠.	• •	••	••	• •		• •	• •	*				Ì	
testacea													*							1								
Dryomyza																												
semicyanea Sepedon	• •	• •	٠.	٠.	• •		*	• •		٠.	*	*	*	*	• •	• •	• •	• •		• •	*							
costalis												*									*							
Javanensis										*					*	• •			•	•	~							
invicta	• •	٠.		• •	*																							
frontalis Sapromyza	• •	• •	• •	• •	• •	• •		• •	• •	• •	• •	*																
biguttata					*					*																		
																				-	ì	- 1		- 1	_ 1	-	-1	

	China,	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Gauzania																												
devecta Celyphus	• •	• •	• •	• •	*												- {											İ
obtectus		*		*											*													
scutatus	٠.	*	*	٠.	*	• •	• •	٠.		• •	• •	٠.	٠٠,	• •	*													
Lauxania eucera					*	*																						
detereuns				*	ì																							
duplicans	٠.			• •		• •		٠.	٠.									٠.			*							
minuens				• •			• •	٠.	• •	• •	• •	• • •			• •	• •	*	• •	• •	• •	*							
perplexa Lonchæa	• •	• •	• •	• •	• •			• •	• •	• •	• • •		• •	• • •	• •	• •	У.											
inops																*		٠.			*		*					
punctipennis					٠.	• •	• •		٠.				٠.	٠.	*													
consentanea				• •	• •	::	*	• •	• •	• •	• •	• •	• •	• •	*													
Thressa		• •		• •	• •				٠.				• •	• •	~													-
signifera															*													
Ochthiphila			1																									
discoglauca Xangelina	٠.			• •	• •			• •		• •	٠٠		٠.	• •	*													
basigutta	١	١	l	*																								
Oxycephala		1																										
alienata	٠.						٠.									*												
Xiria antica				*																								
Poticara				~																								
triarcuata		١	1										*															
tricurvata		1									*		}															
biarcuata								٠.					• •	*														
attrahens													*															
Platystoma																												
rigida			t			*																						
stellata frontalis				*	*	١	١								*													
potens				1			*	*					.															
tarsalis		1			1									٠.		*												
ventralis																٠.		• •		*								
protensa											*	*																
atomaria					1										*													
basalis															*													
fusifacies												1					• •	١		• •	*							
multivitta							*											1			36		1					
punctiplena	::			ì	i	3									*				1									
brevis			١							1			*															
inscripta									1	1			*				1											
devocata																												
impingens							1	1				1		*														
Lamprogaster	1				Ì																							
zonata																												

													ا د											les.				
	ina.	dia.	Philippines.	rlacea.	Borneo.	Singapore.	Gilolo.	Ternate.	matra.	Va.	aigiou.	chian.	w Guiner	lwatfy.	debes.	ram.	nboyna.	la.	pritto.	.y.	ıι.	isaa.	ysol.	lomon's Is	ıstralia.	Africa.	ylon.	rea.
	2	H	=	7	ř	2	Ξ	T	25	L.	=	P	Ž	ź	2	2	7	ž	2	=	3	12	Z	2	=	7	<u>೮</u>	2
Lamprogaster																												
glabra transversa			• •		*	*																						
						*																						
guttata						*																						
truncatula			1			*																						
basilutea					*																							
					*																							
guttulosa	'				*																							
marginifera								٠.					*	••	*	*	*				*		*					
sexvittata											• •			• •	*													
costalis													*	• •	^													
superna							*																					
quadrilinea								•													*							
delectans	• •	• •			• •	• •		• •				• •	2	• •	• •	• •	٠.	• •			*		*					
bispinosa			• •	•							•		*	•		• •	• •	• •		• •	24		1					
ochromyoides								i					*															
celyphoides														٠.							*							
patula							• •	• •					*															
ventralis	• •	• •	• •	• •	• •								*										*					
tetyroides																					*							
Zygænula																												
singularis								٠.					• •		*													
paradoxa	• •	• •	• •					• •	• •		٠.		• •	• •	• •	٠.	*	• •			*							
variipennis							1					*																
Callantra																												
smicroides															*													
Aragara		į													*													
crassipes Enicoptera		• •		• •		• •	• •	* *			• •			• •	7.													
pictipennis															*													
tortuosa													• .		*								}					
plagifera														٠.	*													
arcuosa		• •		• •	• •	::		: :			• •				*		*											
Dacus																	.,		i									
æneus										*																		
determinatus					*																							
figuratus	• •	• •			*										*													
pubiseta																							*					
addens															*													
devius										• •	*	• •	*															
strigifer mutilloides	• •	• •	• •	• •																	*							
furcifer							*					•																
expertus							*																					
											¥																	1
sepedonoides curvifer				• •							~																	

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Dacus																												
perplexus				• •	• •	• •	*								*													
maculosus											• •	*	*		^		1											
areolatus												*																
strigifinis				٠٠,								*																
diffusus	• •	• •		٠٠,	• •		• •	٠.	• •	• •	• •	• •	• •	• •	*						}							
absolutus				• •			• •	• •	• •	• •	• •	• •	*	• •	• •	*		ŀ					1					
		1						• •													*	1						
pectoralis											*	*									*							
bilineatus									٠.		٠.	••			*													
discipennis			• •		• •	• •	• •	٠.	• •	٠.		*	,,															
imitans					• •	• •	• •	• •	• •	• •	• •		*		*	*												
exigens		(·*	~						İ						
inaptus															*													
longivitta							٠.							• •			*				*							
lativentris							• •	• •	• •	• •	• •	• •	• •	• •	• •	• • '	• •	• •			*							
latifascia						• •	• •	• •	• •	• •	• • •				::		• •	• •		••	*	1						
contrahens															*						×							
speculifer													*															
lituratus											*		*	*			٠.						*					
biarcuatus	1				٠.	• •		• •	• •		• •	• •	*					}					1		l			
concisus							• •	• •					*	ļ									ļ		1			
sepsoides		::						::				*					*						-					
varialis	l.,		١.										*															
terminifer															*			1										
turgidus				• •							• •		• •	*				l										
pompiloides					::				• •					*			* *		• •	• •	*							
fulvitarsis	::											::		ı^.	*													
inscriptus																	*			-		1						
signatipes					1								*				*											
instabilis				• •				• •	• •				*			1				1								
psiloides	ļ.,		١.,	١.,	ļ.,	١.,	١.,					١.,	l.,	١.,	*													
Sophira				1						1	1		1															
venusta						*																						
concinna	٠.				*																							
bistriga			•	1											*													
punctifera															1 %													
bipars							1									*												
Rioxa	1		1																									
lanceolata	•		- 1		1	*																						
confinis				4													*											
formosipennis.							1						*				1											
Palloptera			'		1	'													1									
detracta																*												
																									1			

										_																	,		
		China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
	Valonia			ĺ	-														_							-			_
	complicata Brea	• •	•••	• •	*																				Ì				
	discalis													*	*							*							
	contraria	٠.	• •						, .													*							
	Adrama											,	*																
	selecta								• •			*	*		• •	• •	• •		• •	• •		*							
	Diopsis					1																							
	quadriguttata quinqueguttata	• •	٠٠,	• •	*	*			^																				
	discrepans	• •			*	*																							
	subnotata			*												*													
	detrahens	• •	• •	• •	• •	• •	• •	• •	• •	• •	٠.	• •	• •	٠.	• •	*													
	Noeeta latiuscula					*																							
	Urophora																												
	fasciata	• •	٠.			*																							
	Trypeta rudis					*																							
-	multistriga	• •										*										*							
	retorta	• •	• •			• •													1								İ		
	transiens dorsigutta	• •		• •			• •	• •	• •	•	• •	••	• •	• •	• •	• •	• •	*				*							
	approximans			• •										::		*	• •	• •	• •		••	ネ							
	basalis								• •													*					ļ		
1	amplipennis							• •	• •	• •	• •	••	••	••	• •	*		İ	1										
1	lativentris															*													
	impleta																					*						j	
	subocellitera	• •					• •		• •	• •	••	• •	• •	٠.	• •	• •			• •			*							
	roripennis basifascia							• •				• •		• •	• •	*		• •	• •	• •	*		- 1						
1	nigrifascia									- 1						*							-						
	signifacies	• •					• •	- 1	• •	• •	• •	• •	• •		• •	• •	• •	*								-			
	melaleucadiversata				• •			- 1						*	••	•	*				-								
	brevivitta										- 1			*		-													
1	Ortalis prompta						1	.:																					
	obliqua	!	1	1							- 1		*		• •	• •				• •		*						1	
	tarsalis		1										*																
	æquifera	• •	• •	• •	• •	• •	• •	* *								1							1						
	concisivitta		!		1																	*			1		1		
	punctifascia			[*																					
	leucomera			[• •	• •	• •				• •			• •	• •	• •		• •	• •	• •	*					
	vacillans					•										*													
	decatomoides													*															
0	semivitta	•	• •	• •	٠٠	• •	••	$\cdot \cdot $	• •	• •	• •	• •		*															
1	Strumeta conformis						*																						
	conformis												*										*						
1		.				- 1			-						_		- 1	- 1)				-	j	- 1		-	

	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Strumeta																												
concisa helomyzoides	• •	• •	• •	• •	• •	• •	•	• •	• •	• •	*												*					
Polyara					•													•			•		^					
insolita																	٠,				*		*					
Achias maculipennis			,		*	*				*																		
longividens			*	• •	24.																*							
latividens	'																				*							
amplividens	• •	• •		• •	٠.	• •	• •	• •		• •	• •		• •	• •	• •	• •	• •		• •	• •	*							
aspiciens brachyophthalma				• •	• •						*		*															
venustula													*															
dacoides														*														
Sepsis basifera																	*											
testacea			* *				::								*	• •	~	• •		• •	*							
frontalis															*													
fascipes	• •			٠.		• •	• •			. •					*													
revocans Angitula	• •		*	• •	• •		• •			٠.	• •		• •	• •	*													
longicollis							*				*	*		*		*					*		*					
Phytalmia			1								:																	
guttipennis Calobata						٠.		• •	٠.			• •	• •		*													
confinis				*		*																						
immixta				*																								
strenua	• •				*																							
cedens					*							*																
diffundens		::	::				*																*					
immiscens																			٠.									
gutticollis				• •			*								*		*											
resoluta			::												*		^											
sepsoides																					*							
contraria											: •		*															
albitarsis contingens			::		::					*				*							*	::	*		*			
indica																					*							
Abana																					e*							
bifasciata			*									*		• •	*													
plagiata	١												*															
tipuloides													*															
Micropeza fragilis				*	*	*							U				, v						*					
forficuloides	::				~				1.			*	*	• •	*		*		• •				75					
prolixa	١.,٠	1						1			L	*										*						
perclusa											*																	
Cardiacephala longicollis					*													1					1					
debilis																					*		*					
varipes															*									1				

									_																		٠.,	
	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	-Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Lissa															1													
cylindrica Nerius		٠.	• •	• •	• •	• •	• •	• •	٠.		• •	• •	*	• •	• •	• •	• •			• •	*							
fuscipennis			*	*	*	*				*					*													
duplicatus							*				*	*	*								*							
tibialis				• •		• •							*	• •	• •	• •	*											
Cœnurgia													, x															
remipes															*													
Texara		-			,,	*																						
compressa dioctrioides					*										*													
Stymbara	1	1	ł	1									1										ĺ					
vagaria Seraca							• •	• •			• •		*															
signifera															*													
signata	l														*													
abbreviata											• •		*															
Gobrya bacchoides	١	l.,		١	١				١		١				*													
Psila	1	1	1																									
bipunctifera					1		1											1										
munda						1::	1::					::			*													
cruciata	١.,	١.,	١.,		1								*															
basalis							1				1		1															
vittifera Piophila		.											*															
contecta		ļ.,	. .,	ļ.,											*													
disjuncta		. :		.			· · ·			.			. *		-	}								-				
Opomyza nigrifinis						1.				. .,			. .	l	. *								-					
Milichia															"						1							
minuta	•		•	. - :				.		. .	٠ ٠ ٠	٠.	. *													1		
Gymnopa gutticosta].	\ ×																							
infusa																				-								
Oscinis			1																		1.							
lineiplena																						- 1						
femorata							.[.																	1		
Chlorops																												
conclusata Cephaloconus						1	1				1		*															
tenebrosus											٠.	. *																
Drosophila																												
finigutta melanospila																						1						
imparata					-		. .									٠						- 1						
solennis		. -			.	-	•		- -						. *													
illata															. *	- 1												
lurida								- i	. 1						. *	-												
lateralis			. - -	•	. *	-							-					
							_					_									-							

•																												
	China.	India.	Philippines.	Malacca.	Borneo.	Singapore.	Gilolo.	Ternate.	Sumatra.	Java.	Waigiou.	Bachian.	New Guinea.	Salwatty.	Celebes.	Ceram.	Amboyna.	Sula.	Gorrite.	Key.	Aru.	Kaisaa.	Mysol.	Solomon's Isles.	Australia.	Africa.	Ceylon.	Corea.
Drosophila pinguis dorsalis Ephydra taciturna borboroides maculicornis Discomyza			*			•••							***	**			•••			•••	*	: :	**	Sol	Au	Afr	Cey	Cor
Batchianica simplex obscurata Nycteribia parilis			*				*					* *	••		*	*	••	••	••	••	••	•	*	,				
dubia													• •	••	*													